

Amendments to the Claims

The following listing of Claims, in which deleted text appears as ~~struck through~~ and inserted text appears underlined, will replace all prior listings, and versions, of the claims in the application.

Listing of Claims

Claim 1 (withdrawn): An isolated cellulase protein selected from the group consisting of a CBH1 from *Hypocrea schweinitzii*, *Hypocrea orientalis*, *Trichoderma pseudokoningii* and *Trichoderma konilangbra*.

Claim 2 (withdrawn): The isolated cellulase protein of Claim 1 wherein said protein is the CBH1 from *Hypocrea orientalis* comprising the amino acid sequence according to SEQ ID NO:5.

Claim 3 (withdrawn): The isolated cellulase protein of Claim 1 wherein said protein is the CBH1 from *Hypocrea schweinitzii* comprising the amino acid sequence according to SEQ ID NO:8.

Claim 4 (withdrawn): The isolated cellulase protein of Claim 1 wherein said protein is the CBH1 from *Trichoderma konilangbra* comprising the amino acid sequence according to SEQ ID NO:11.

Claim 5 (withdrawn): The isolated cellulase protein of Claim 1 wherein said protein is the CBH1 from *Trichoderma pseudokoningii* comprising the amino acid sequence according to SEQ ID NO:14.

Claim 6 (canceled)

Claim 7 (canceled)

Claim 8 (withdrawn): An isolated nucleic acid sequence which encodes or is complementary to a sequence which encodes a CBH1 polypeptide selected from the group consisting of the amino acid sequences presented as SEQ ID NO:5, 8, 11 and 14.

Claim 9 (withdrawn): An isolated nucleic acid selected from the group consisting of SEQ ID NO: 3, 6, 9 and 12.

Claim 10 (withdrawn): An isolated nucleic acid sequence encoding a CBH1 according to Claim 6.

Claim 11 (withdrawn): A vector comprising a nucleic acid according to claim 8.

Claim 12 (withdrawn): A vector comprising a nucleic acid according to claim 9.

Claim 13 (withdrawn): A vector comprising a nucleic acid according to claim 10.

Claim 14 (withdrawn): A host cell transformed with the vector of claim 11.

Claim 15 (withdrawn): A host cell transformed with the vector of claim 12.

Claim 16 (withdrawn): A host cell transformed with the vector of claim 13.

Claim 17 (withdrawn): A method of producing a CBH I variant comprising the steps of:

- (a) culturing the host cell according to claim 14 in a suitable culture medium under suitable conditions to produce CBH I variant;
- (b) obtaining said produced CBH I variant.

Claim 18 (withdrawn): A method of producing a CBH I variant comprising the steps of:

- (a) culturing the host cell according to claim 15 in a suitable culture medium under suitable conditions to produce CBH I variant;
- (b) obtaining said produced CBH I variant.

Claim 19 (withdrawn): A method of producing a CBH I variant comprising the steps of:

- (a) culturing the host cell according to claim 16 in a suitable culture medium under suitable conditions to produce CBH I variant;
- (b) obtaining said produced CBH I variant.

Claim 20 (withdrawn): A detergent composition comprising a surfactant and a CBH I variant, wherein said CBH I variant comprises a CBH I variant according to claim 1.

Claim 21 (withdrawn): The detergent according to claim 20, wherein said detergent is a laundry detergent.

Claim 22 (withdrawn): The detergent according to claim 20, wherein said detergent is a dish detergent.

Claim 23 (withdrawn): A feed additive comprising a CBH I variant according to claim 1.

Claim 24 (withdrawn): A method of treating wood pulp comprising contacting said wood pulp with a CBH I variant according to claim 1.

Claim 25 (withdrawn): A method of converting biomass to sugars comprising contacting said biomass with a CBH I variant according to claim 1.

Claims 26 **(Previously Presented)** A variant *H. jecorina* CBH1 cellulase, wherein said variant comprises a substitution or deletion at a position corresponding to T66 of the mature *H. jecorina* CBH1 protein (SEQ ID NO: 2), wherein said variant *H. jecorina* CBH1 cellulase has cellulolytic activity and has at least 95% sequence identity to SEQ ID NO: 2.

Claim 27 **(Previously Presented)** A variant *H. jecorina* CBH1 cellulase according to Claim 26, wherein said variant further comprises a substitution at a position corresponding to a residue selected from the group consisting of Q186(E), S195(A/F), E239S, G242(H/Y/N/S/T/D/A) and P412(T/S/A).

Claim 28 **(Previously Presented)** A variant *H. jecorina* CBH1 cellulase, wherein said variant consists of a substitution or deletion at a position corresponding to T66 of the mature *H. jecorina* CBH1 protein (SEQ ID NO: 2), wherein said variant *H. jecorina* CBH1 cellulase has cellulolytic activity.

Claim 29 **(Amended)** A variant *H. jecorina* CBH1 cellulase, wherein said variant consists of a substitution or deletion at a position corresponding to T66 of the mature *H. jecorina* CBH1 protein (SEQ ID NO: 2) according to Claim 28, wherein said variant further and a

substitution at a position corresponding to a residue selected from the group consisting of Q186(E), S195(A/F), E239S, G242(H/Y/N/S/T/D/A) and P412(T/S/A), wherein said variant *H. jecorina* CBH1 cellulase has cellulolytic activity.

Claim 30 **(New)** A variant *H. jecorina* CBH1 cellulase according to Claim 26, wherein said variant further comprises a substitution at a position corresponding to a residue selected from the group consisting of L6, P13, T24, Q27, S47, T59, G88, T160, Q186, S195, T232, E236, E239, G242, N250, T281, F311, N327, D329, A336, K354, V407, P412, T417 and F418.

Claim 31 **(New)** A variant *H. jecorina* CBH1 cellulase, wherein said variant consists of a substitution or deletion at a position corresponding to T66 of the mature *H. jecorina* CBH1 protein (SEQ ID NO: 2) and a substitution at a position corresponding to a residue selected from the group consisting of L6, P13, T24, Q27, S47, T59, G88, T160, Q186, S195, T232, E236, E239, G242, N250, T281, F311, N327, D329, A336, K354, V407, P412, T417 and F418, wherein said variant *H. jecorina* CBH1 cellulase has cellulolytic activity.